

## CLIMATOLOGICAL DATA FOR JUNE, 1911.

## DISTRICT NO. 8, TEXAS AND THE RIO GRANDE VALLEY.

B. BUNNEMEYER, District Editor.

## GENERAL SUMMARY.

The month averaged much warmer than normal except in New Mexico, where it was notably cooler in the Rio Grande Valley. In Texas it was exceptionally warm, the mean temperature ranging from about normal in extreme western Texas to over  $6^{\circ}$  above in the northern portion of the State. The precipitation was decidedly deficient in Texas, but averaged greater than normal in New Mexico and Colorado. So far as Texas is concerned this was the driest and warmest June in the last 24 years, and considerable damage resulted from the drought and heat. The drought was apparently severest in the northern, west-central, and southwestern portions of the State. Good rains occurred, however, over limited areas in extreme west Texas and in the extreme upper coast counties. The moisture was generally well distributed in Colorado and New Mexico, where the number of days with 0.01 inch or more of precipitation averaged 7 and 6, respectively. In Texas the number of days with appreciable precipitation averaged only 2 and most of the rainfall occurred from the 16th to the 24th. The percentage of sunshine was unusually high east of the Rio Pecos and averaged below normal in the western portions of the district. Thunderstorms occurred with less than the usual frequency and there were relatively but few severe local storms.

The greatest and least monthly amounts of precipitation in Colorado were 2.76 inches at Platoro and 0.29 inch at Blanca; in New Mexico, 3.80 inches at Harvey's Upper Ranch and a trace at Laguna; and in Texas, 9.20 inches at Anahuac and none at 13 stations, while at 6 other stations the amounts were too small to be measured. Excessive precipitation of 2.50 inches or more in 24 consecutive hours occurred at 2 stations in Texas.

## TEMPERATURE.

The mean temperature averaged  $1.7^{\circ}$  above the normal in Colorado,  $0.8^{\circ}$  below in New Mexico, and  $3.6^{\circ}$  above in Texas. As a rule, the days were warm and the nights relatively cool. Maximum temperatures of  $100^{\circ}$  or more were recorded in New Mexico on and after the 23d, while in Texas they were recorded as early as the 1st. The average daily range of temperature varied from  $9^{\circ}$  on the upper Texas coast to  $38^{\circ}$  in the extreme northwestern portion of the district. The highest and lowest temperatures reported were: In Colorado  $88^{\circ}$  at Garnett on the 4th, and  $22^{\circ}$  at Hermit on the 4th; in New Mexico  $105^{\circ}$  at Hondo Reservoir on the 25th and at Carlsbad on the 25th and 26th, and  $27^{\circ}$  at Bluewater on the 2d; and in Texas  $112^{\circ}$  at Haskell on the 23d and at Barstow on the 24th, and  $54^{\circ}$  at Marathon on the 1st and at Falfurrias on the 7th. The local monthly means ranged from  $51.6^{\circ}$  to  $61^{\circ}$  in Colorado, from  $55.4^{\circ}$  to  $79.8^{\circ}$  in New Mexico, and from  $74.6^{\circ}$  to  $89.8^{\circ}$  in Texas.

## PRECIPITATION.

The precipitation over the Rio Grande watershed exceeded the normal over the upper half and was decidedly deficient over the lower half. The average for the entire drainage area was 1.12 inches, which is over 50 per cent more than reported for May or for the corresponding month of the previous year. The greatest monthly precipitation was 3.32 inches at Valentine, Tex., while there was very little or no precipitation at any of the Texas stations from Del Rio to Llano Grande.

The average precipitation for the Rio Pecos watershed was 1.11 inches, which is the same as the amount reported for the corresponding month of the previous year, but much less than that reported for May. In several localities the monthly amounts exceeded the normal, but over the greater portion of the drainage area there was a deficiency which was most conspicuous over the Texas stretch. The greatest monthly precipitation was 3.80 inches at Harvey's Upper Ranch, N. Mex., and there was none at Grand Falls, Tex.

The Texas watersheds showed a decided deficiency of precipitation which was most pronounced over the Nueces drainage area. In this area the heaviest monthly amount was only 0.05 inch and 78 per cent of the reporting stations had either no precipitation or the amounts were too small to be measured. Similar conditions existed over limited areas in the upper and middle portions of the Colorado and Brazos, in the upper portions of the Sabine, and in the lower coastal plains. The deficiency was general, except near the extreme upper coast, where heavy rains occurred. The heaviest monthly amount reported was 9.20 inches at Anahuac. The following are the average monthly amounts, in inches, for the various watersheds: Nueces, 0.01; San Antonio, 0.48; Guadalupe, 0.63; Lavaca, 1.96; Colorado, 0.60; Brazos, 0.73; Trinity, 1.02; Neches, 1.57; Sabine, 0.36; and coastal plains, 1.90. These amounts are about 1.25 inches less than those reported for May and 0.99 inch less than those for the corresponding month of the previous year.

## RIVER CONDITIONS.

There was ample water in both the Rio Grande and Rio Pecos for irrigation and storage. The Rio Grande especially discharged a large volume of water during the month; in fact, the volume was the largest for June in the last 5 years.

The Texas streams, which showed a decided deficiency of water at the close of May, continued unusually low during the month. The stages reported are the lowest on record for June, and there was a scarcity of water for the irrigation of rice fields.

## MISCELLANEOUS.

*Glorieta Ranch, N. Mex.*—This has been the best June for 7 years, and vegetation is in better condition in this section than it has been for fully 15 years.

*Boerne, Tex.*—The last 50 days have been noted for persistent drought, which caused much damage, as it was the ripening season of oats and corn.

*Bowie, Tex.*—On 25 days of this month the highest daily temperature was 100° or over, which makes this the hottest month on record here.

*Cameron, Tex.*—A severe windstorm occurred at this place at 7.10 p. m. June 18, 1911, which destroyed about 15 small houses and damaged other buildings and injured about 6 or 8 persons, though not seriously. The total damage is estimated at \$15,000.

*Haskell, Tex.*—Hot southwest winds occurred on the 24th and 25th, which gave the warmest weather noted in the last 23 years. Vegetation is burning up and rain is badly needed.

*Marfa, Tex.*—There was more rain during this month than has fallen in any previous June in 25 years.

## IRRIGATION IN TEXAS.

The Medina Irrigation Co. has begun the construction of a dam across the Medina River, a tributary of the San Antonio River, about 12 miles north of Castroville. The dam will be 160 feet high and 1,360 feet long and will be the largest in the State of Texas. A

tract of 13,824 acres will be placed under irrigation, which will ultimately be increased. To facilitate the work of construction a railroad line is being built from the Southern Pacific Railroad at Dunlay to the site of the dam, a distance of 25 miles.

The St. Stephen Land & Irrigation Co. is building a dam about 12 miles south of Marfa, Tex., across Alamita Creek, which drains into the Rio Grande. The dam is nearing completion and will irrigate 9,000 acres. The reservoir site commands a drainage area that is precipitous at the outer rim, being bounded by mountains that rise to a height of several thousand feet. The dam is constructed of reinforced concrete and is composed of two sections with the face wall supported by buttresses, which are triangular in shape, the upstream edge being inclined at an angle of 45° and the downstream edge at an angle of 12°. Both buttresses and face wall are securely trenched into solid rock. The dam will be six times stronger than necessary to support the pressure against it. When completed, it will be 997 feet long and 108 feet high at the highest point. The water will be delivered to the valley through a tunnel 670 feet long. The valley itself has a slope of about 25 feet per mile, which permits of the water readily reaching all parts of the valley by gravitation. The main canal will have a slope of 2 feet per mile and the main lateral of 6 feet. The land to be irrigated is of a volcanic nature and dark chocolate in color.—(Extract from report furnished by Mr. S. J. Truman, secretary of the company.)

TABLE 1.—*Climatological data for June, 1911: District No. 8, Texas and Rio Grande Valley.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.								Precipitation, in inches.								Sky.	Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.				
<i>Colorado.</i>																						
Blanca.	Costilla.	7,885	2	57.8	.....	81	6†	30	3	48	0.29	.....	0.15	0	4	10	20	0	sw.	Dr. L. C. Audrain.		
Cumbres.	Conejos.	10,015	4	60.6	+ 2.8	88	4	33	2†	48	1.32	+ 0.02	0.62	0	4	15	13	2	.....	Mrs. Ida M. Lively.		
Garnett.	Costilla.	7,576	18	60.6	+ 2.8	88	4	33	2†	48	1.58	+ 0.94	0.33	0	3	14	8	8	sw.	Chas. Spelser.		
Hermit.	Hinsdale.	9,843	4	60.6	.....	22	4	48	.....	48	0.64	.....	0.46	0	6	14	11	5	w.	Marion Mason.		
La Veta Pass.	Costilla.	9,000	1	60.6	.....	.....	.....	.....	.....	.....	0.64	.....	0.21	0	6	14	11	5	.....	Marine D. Wright.		
Manassa.	Conejos.	7,700	5	60.6	.....	.....	.....	.....	.....	.....	2.76	.....	0.63	0	15	19	8	3	w.	J. B. Chapman.		
Platoro.	do.	8,675	4	60.6	.....	.....	.....	.....	.....	.....	0.80	.....	- 0.04	0	3	8	5	17	w.	Walter R. Hook.		
Saguache.	Saguache.	7,740	19	61.0	+ 1.5	86	28	25	10	59	0.81	+ 0.21	0.40	0	5	14	15	1	sw.	Eugene Williams.		
San Luis.	Costilla.	7,794	20	59.0	+ 0.8	83	6	31	10	48	0.81	+ 0.21	0.48	0	5	15	9	13	w.	P. B. Albright.		
Wagon Wheel Gap Experiment Station.	Mineral.	9,235	.....	51.6	+ 1.6	71	27	30	3	36	2.14	+ 1.68	0.42	0	15	8	9	13	w.	U. S. Weather Bureau.		
<i>New Mexico.</i>																						
Agricultural College.	Dona Ana.	3,863	48	76.6	- 2.3	102	27	53	4	44	0.33	- 0.19	0.23	0	4	6	24	0	sw.	Agricultural College.		
Alamogordo (near).	Otero.	4,338	10	76.6	.....	103	25†	51	5†	50	0.54	- 0.12	0.16	0	6	8	14	8	sw.	Charles Sutton.		
Alamogordo.	do.	4,320	2	.....	.....	.....	.....	.....	.....	.....	0.54	.....	0.16	0	5	11	11	1	.....	Agent E. P. & S. W. R. R.		
Alamos Ranch.	Sandoval.	7,800	.....	.....	.....	.....	.....	.....	.....	.....	1.63	.....	0.86	0	7	19	9	2	sw.	Harold H. Brooks.		
Albuquerque.	Bernalillo.	5,000	35	.....	.....	.....	.....	.....	.....	.....	1.26	+ 0.49	0.64	0	6	18	11	1	w.	Pitt Ross, C. E.		
Ancho.	Lincoln.	6,112	2	.....	.....	.....	.....	.....	.....	.....	1.18	.....	0.41	0	4	21	4	5	se.	Agent E. P. & S. W. R. R.		
Artesia.	Eddy.	3,350	4	77.2	.....	103	24†	53	4	45	0.81	.....	0.22	0	6	11	18	5	.....	Will Benson, C. E.		
Aspen Grove Ranch.	Rio Arriba.	9,000	2	.....	.....	.....	.....	.....	.....	.....	1.22	.....	0.20	0	6	12	15	3	.....	Junius D. Maupin.		
Bateman Ranch.	do.	8,900	2	.....	.....	.....	.....	.....	.....	.....	1.22	.....	0.35	0	8	6	15	9	w.	J. W. Bateman.		
Bluewater.	Valencia.	6,732	9	61.2	.....	91	28	27	2	57	0.83	.....	0.25	0	2	11	14	5	s.	Bluewater Development Co.		
Boaz.	Chaves.	4,154	2	75.7	.....	103	25	50	15	44	0.67	.....	0.57	0	7	10	13	7	s.	D. C. Savage.		
Capitan.	Lincoln.	6,348	2	.....	.....	.....	.....	.....	.....	.....	1.67	.....	0.52	0	6	18	9	3	se.	Agent E. P. & S. W. R. R.		
Carlsbad.	Eddy.	3,120	16	79.8	+ 0.6	105	25†	58	4	38	1.01	- 1.13	0.60	0	5	18	9	3	se.	U. S. Reclamation Service.		
Carrizozo.	Lincoln.	5,429	3	72.2	.....	98	30	52	13†	46	0.70	.....	0.50	0	3	23	6	1	sw.	Agent E. P. & S. W. R. R.		
Carson Park.	Taos.	7,650	1	.....	.....	.....	.....	.....	.....	.....	1.22	.....	0.70	0	4	23	6	1	sw.	L. S. Myers.		
Chama.	Rio Arriba.	7,851	12	57.9	- 1.0	81	19†	32	2	44	1.55	+ 0.93	0.70	0	4	23	6	1	sw.	F. C. Johnson.		
Cloudcroft.	do.	8,650	9	59.6	.....	82	6	41	10†	38	1.22	- 0.23	0.32	0	8	18	3	1	sw.	Agent E. P. & S. W. R. R.		
Corona.	Lincoln.	6,666	2	.....	.....	.....	.....	.....	.....	.....	1.46	.....	0.80	0	6	19	5	10	e.	Do.		
Coyote.	do.	5,800	2	.....	.....	.....	.....	.....	.....	.....	0.61	.....	0.31	0	6	18	6	6	sw.	Do.		
Cundijo.	Santa Fe.	6,889	2	.....	.....	.....	.....	.....	.....	.....	1.53	.....	0.40	0	6	18	3	9	w.	Juan Vilil.		
Demonstration Farm.	San Miguel.	6,800	2	.....	.....	.....	.....	.....	.....	.....	1.22	.....	0.70	0	5	17	2	1	sw.	Erb & Westerman.		
Duran.	Torrance.	6,272	2	.....	.....	.....	.....	.....	.....	.....	2.15	.....	1.20	0	4	14	14	2	.....	Agent E. P. & S. W. R. R.		
Elli (near).	Chaves.	7,400	11	.....	.....	.....	.....	.....	.....	.....	0.77	.....	0.18	0	8	13	11	3	se.	Boyd Williams.		
Escondido.	Otero.	4,014	2	.....	.....	.....	.....	.....	.....	.....	0.77	.....	0.90	+ 0.33	0.40	0	4	17	10	s.	Agent E. P. & S. W. R. R.	
Espanola.	Rio Arriba.	5,590	13	67.9	- 0.1	93	29	41	10	47	0.90	+ 0.33	0.40	0	4	14	11	5	sw.	Mrs. E. F. McBride.		
Estancia.	Torrance.	6,231	6	71.8	.....	92	26	45	1	37	1.01	.....	0.92	0	4	14	11	5	e.	Agent N. Mex. Central R. R.		
Fort Stanton.	Lincoln.	6,231	33	66.3	- 0.9	94	25	40	4	47	3.11	+ 1.36	0.70	0	11	15	5	10	w.	U. S. Sanitarium.		
Fort Sumner.	Guadalupe.	3,960	3	74.2	.....	102	25	49	1	42	1.19	.....	0.11	0	4	28	2	0	s.	F. A. Manzanares.		
Gallinas.	Lincoln.	6,635	2	.....	.....	.....	.....	.....	.....	.....	1.82	.....	1.10	0	5	17	2	11	w.	Agent E. P. & S. W. R. R.		
Gallinas Planting Station.	San Miguel.	7,500	4	60.4	.....	85	25	37	18	45	1.20	.....	0.50	0	9	17	12	1	sw.	U. S. Forest Service.		
Glorietta Ranch.	Socorro.	5,700	.....	.....	.....	.....	.....	.....	.....	.....	1.27	.....	0.63	0	5	17	9	4	sw.	C. M. Crossman.		
Harvey's Upper Ranch.	San Miguel.	9,400	2	.....	.....	.....	.....	.....	.....	.....	3.80	.....	0.83	0	13	18	3	3	se.	Simon B. Warner.		
Hillsboro.	Sierra.	5,224	13	74.2	- 0.6	100	25	48	5†	42	1.76	+ 1.20	0.48	0	6	14	13	3	sw.	Dr. Frank L. Givens.		
Hodges.	Taos.	8,484	2	.....	.....	.....	.....	.....	.....	.....	0.37	.....	0.17	0	3	19	9	2	.....	Austinh Porter.		
Hondo Reservoir.	Chaves.	3,904	2	78.2	.....	105	25	46	11	43	0.37	.....	0.17	0	3	19	9	2	.....	U. S. Reclamation Service.		
Hope.	do.	4,000	3	.....	.....	.....	.....	.....	.....	.....	0.37	.....	0.41	0	3	19	9	2	.....	A. W. Board.		
Jemez Springs.	Sandoval.	6,100	1	68.2	.....	88	27	45	3	38	1.83	.....	0.90	0	7	9	15	6	sw.	Linus L. Shields.		
Knowles (near).	Eddy.	4,300	1	77.8	.....	104	24†	56	4	41	0.94	.....	0.88	0	8	17	11	2	se.	J. W. Mosley.		
Laguna.	Valencia.	5,840	6	69.8†	.....	98	25	41	5	54†	T.	.....	0	0	11	11	8	.....	Gus Weiss.			
Lagunita.	Guadalupe.	4,500	6	74.6	.....	98	26	53	4	45	1.73	.....	1.11	0	3	17	9	4	w.	P. A. Turnbull.		
Lake Valley.	Sierra.	5,412	6	74.6	.....	98	25	46	11	43	1.91	.....	0.41	0	9	8	20	2	sw.	W. P. Kell.		
Las Vegas.	San Miguel.	6,384	24	64.6	- 1.2	91	4	43	4†	48	2.44	+ 0.71	1.08	0	9	17	12	1	w.	N. Mex. Normal University.		
Liston.	Chaves.	5,000	1	69.8	- 2.9	101	25	40	15	58	0.86	+ 0.30	0.31	0	2	9	20	1	s.	H. G. Liston.		
Los Lunas (near).	Valencia.	4,900	21	69.8	- 2.9	101	25	40	4	47	2.39	.....	0.80	0	5	13	13	4	w.	Richard Pohl.		
Magdalena.	Socorro.	6,557	6	67.2	.....	92	6†	44	4	47	3.06	.....	0.80	0	8	11	16	3	sw.	William Pender.		
Mescalero.	Otero.	6,627	2	65.0	.....	87	25†	44	4†	39	2.00	.....	0.45	0	11	15	7	8	sw.	Rev. R. H. Harper.		
Mineral Hill.	San Miguel.	7,050	6	60.0	.....	99	25	49	11	51	1.06	.....	0.45	0	7	5	23	2	sw.	W. M. Nelson.		
Monterey.	Otero.	4,436	2	.....	.....	.....	.....	.....	.....	.....	1.54	.....	0.48	0	6	18	8	4	se.	Agent E. P. & S. W. R. R.		
Mountainair.	Torrance.	6,547	9	65.2	.....	92	5	44	15	43	0.34	.....	0.11	0	5	14	15	1	sw.	Mrs. J. W. Corbett.		
Newman.	Otero.	3,989	2	.....	.....	.....	.....	.....	.....	.....	0.90	.....	0.50	0	3	21	5	10	se.	Agent E. P. & S. W. R. R.		
Noria.	Dona Ana.	4,114	2	.....	.....	.....	.....	.....	.....	.....	0.86	.....	0.65	0	6	15	10	5	w.	Do.		
Orange.	Otero.	5,000	4	.....	.....	.....	.....	.....	.....	.....	0.97	.....	0.31	0	6	9	15	6	sw.	J. Brownfield, Jr.		
Orogrande.	Lincoln.	4,171	2	.....	.....	.....	.....	.....	.....	.....	0.97	.....	0.28	0	7	19	5	6	sw.	Agent E. P. & S. W. R. R.		
Osgurra.	Eddy.	5,016	2	.....	.....	.....	.....	.....	.....	.....	1.34	.....	0.81	0	4	16	11	3	se.	Eugene F. Jones.		
Otis.	Santa Fe.	3,100	2	.....	.....	.....	.....	.....	.....	.....	0.85	.....	0.26	0	6	14	14	3</td				

TABLE 1.—*Climatological data for June, 1911. District No. 8—Continued.*

TABLE 1.—Climatological data for June, 1911. District No. 8—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years	Temperature, in degrees Fahrenheit.						Precipitation, in inches.				Sky.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.	Number of partly cloudy days.	Number of cloudy days.			
<b>Texas—Continued.</b>																			
Houston.	Harris.	138	21	83.8	+ 2.8	101	13	71	16	26	3.10	- 2.20	0.88	0	9	18	11	1	s.
Huntsville.	Walker.	400	27	83.7	+ 2.8	101	14	60	4	37	3.26	- 0.89	1.62	0	3	22	0	8	s.
Jayton.	Kent.	1											0.50	0	1	18	11	1	s.
Jewett.	Leon.	496	7	86.6		107	13	60	77	42	0.83		0.83	0	1	13	15	2	s.
Junction.	Kimble.	1,645	10	81.4		106	17	56	19	40	3.30	+ 0.20	2.50	0	2	25	5	0	s.
Kaufman.	Kaufman.	448	12	86.8	+ 5.4	107	14	67	13	36	0.28		0.28	0	1	24	6	0	sw.
Kerrville.	Kerr.	1,650	15	82.4	+ 4.2	100	13†	60	1	38	0.08	- 2.80	0.08	0	1	17	6	7	s.
Knickerbocker.	Tom Green.	2,050	2	82.4		110	16†	60	21	42	0.07		0.07	0	1	22	8	0	se.
Kopperl.	Bosque.	576	14								0.60	- 2.05	0.50	0	2	20	6	4	s.
Lagrange.	Fayette.	276	1								0.22		0.22	0	1	29	0	1	se.
Lamesa.	Dawson.	2,500	1								0.62		0.45	0	2	29	0	1	s.
Lampasas.	Lampasas.	1,026	19	83.3	+ 3.6	105	13	63	3	39	0.58	- 2.97	0.48	0	1	1	1	1	s.
La Parra.	Cameron.	38	9								0.00	- 1.69	0.00	0					
Laureles Ranch.	Nueces.	20	11								0.45	- 2.31	0.45	0	1				
Liberty.	Liberty.	38	7	82.1		108	13†	64	13†	39	3.83		1.45	0	6	25	3	2	s.
Llano.	Llano.	1,040	20	85.6	+ 4.0	105	14	66	2	33	0.08	- 1.93	0.05	0	2	29	1	0	se.
Llano Grande.	Hidalgo.	86	3	81.8 <sup>k</sup>		104	21†	60	1†	37 <sup>k</sup>	0.00		0.00	0	0	18 <sup>k</sup>	1 <sup>k</sup>	0	se.
Long Lake.	Anderson.	229	6								0.86		0.86	0	1	22	5	3	s.
Longview.	Gregg.	336	25	86.2	+ 5.1	106	9	64	13†	41	0.42	- 3.89	0.33	0	3	26	2	2	sw.
Lubbock.	Lubbock.	325	4	83.2		102	14	62	12†	39	2.32		0.10	0	4	19	11	0	s.
Lulkin.	Angelina.	418	22	84.6	+ 2.6	102	13†	66	2	30	0.08	- 2.35	0.08	0	1	23	7	0	s.
Luling.	Caldwell.	413	1								1.32		0.80	0	3	26	1	3	s.
McGregor.	McLennan.	713	1								0.60		0.60	0	1	14	12	4	s.
Marathon.	Brewster.	4,043	1	74.6		99	26	54	1	34	0.60		0.22	0	1	27	0	3	s.
Marble Falls.	Burnet.	771	3								2.90		1.50	0	6				
Marfa.	Presidio.	375	2	83.6		104	11†	57	13	45	0.46		0.32	0	4	1	29	0	0
Marshall.	Harrison.	375	2	83.6							0.45		0.45	0	1	26	3	1	s.
Matagorda.	Matagorda.	12									0.45		0.45	0	3	16	12	2	s.
Mexia.	Limestone.	537	7	83.1		105	14	65	4†	40	0.58		0.35	0	3	16	12	2	s.
Midland.	Midland.	4									0.10		0.10	0	1	21	9	0	se.
Mission.	Hidalgo.	140	1	84.4		101	20	66	2	31	0.10		1.37	0	5	17	9	4	s.
Mont Belvieu.	Chambers.	65	1								2.42								
Mountain View.	Pecos.	3,900	23	80.3	+ 4.5	107	24	59	1	40	1.58	- 1.36	1.58	0	1	10	2	18	s.
Mount Blanco.	Crosby.	2,750	23	80.3	+ 4.5	107	24	59	1	40	1.58	- 1.36	1.58	0	2	21	5	2	sw.
Nacogdoches.	Nacogdoches.	271	13	81.9	+ 3.1	100	12†	60	14	38	0.53	- 4.18	0.26	0	1	17	13	0	s.
New Braunfels.	Comal.	720	29	82.2	+ 1.5	99	13†	63	2	30	0.29	- 2.87	0.29	0	4	21	7	2	s.
Palestine.	Anderson.	510	29	82.2	+ 3.8	93	14	66	18	31	0.55	- 3.48	0.41	0	3				
Panter.	Hood.	1,000	22								0.27	- 3.41	0.15	0					
Pearl.	Frio.	629	1								0.00		0.00	0					
Pierce.	Wharton.	103	5	80.2		101	13	64	2†	35	3.02	- 2.46	0	4	20	9	1	s.	
Plainview.	Hale.	3,370	15	78.4	+ 1.6	106	24†	55	8†	45	0.03	- 3.24	0	1	15	15	0	s.	
Port Arthur.	Jefferson.	20	10	84.1	+ 1.1	99	13	68	7	27	1.30	- 1.84	1.00	0	2	27	3	0	s.
Port Lavaca.	Calhoun.	2,700	1								0.21		0.18	0	2	27	3	0	sw.
Post City.	Garza.	1,591									0.25		0.15	0	1	20	10	0	s.
Raymondville.	Cameron.										0.15		0.15	0	1	20	10	0	se.
Ricardo.	Nueces.	57	2	83.0		102	13	68	14	32	2.30		2.18	0	3	23	7	2	s.
Riverside.	Walker.	189	7								1.00		1.00	0	1	26	2	2	s.
Robert Lee.	Coke.	1,850	12	84.8	+ 5.5	105	17	65	30	35	0.17	- 2.45	0.17	0	1	14	0	0	se.
Rockport**.	Tyler.	130	7								2.21		1.00	0	5	14	4	12	w.
Rossville.	Aansas.	12	10	82.1	+ 0.8	83	14†	75	2	13	1.25	- 2.24	1.05	0	2	22	8	0	se.
Runge.	Atascosa.	558	4	85.0		105	25	65	1	35	0.05		0.05	0	1	12	18	0	se.
Sabinal.	Karnes.	308	16								1.20	- 1.73	0.55	0	2				
Salado.	Uvalde.	904	7	85.0		104	19	64	2	34	0.04		0.04	0	1	6	18	6	se.
San Angelo.	Bell.	1									0.66		0.66	0	1	19	0	11	s.
San Antonio.	Tom Green.	1,847	20	85.2	+ 4.1	107	24	64	17†	40	0.97	- 1.28	0.68	0	2	21	7	2	s.
San Augustine.	Bexar.	701	26	84.2	+ 3.8	101	13	68	2	28	0.30	- 2.81	0.30	0	1	15	14	1	se.
San Diego.	San Augustine.	360	2	83.0		104	15	59	13†	42	2.81		2.18	0	6	13	11	6	se.
San Juanito.	Duval.	312	9	89.8		105	13†	74	2	23	0.25		0.25	0	1	24 <sup>a</sup>	3 <sup>a</sup>	2	e.
San Marcos.	Hidalgo.	2	86.7								0.30		0.30	0	1	15	14	1	se.
San Saba.	Hays.	588	18	82.3	+ 1.6	99	14†	65	2†	29	0.35	- 2.83	0.35	0	1	16	0	14	s.
San Saba.	San Saba.	1,712	10	83.2	+ 2.5	103	14†	62	3	38	0.70	- 1.89	0.62	0	3	27	0	3	s.
Santa Gertrudes.	Nueces.	11									1.72		1.37	0	3	23	0	1	s.
Sealy.	Austin.	201									0.09		0.09	0	1	24	14	2	se.
Seymour.	Baylor.	1,320	5	84.6		111	16	55	20	45	0.09		0.05	0	2	14	14	2	se.
Snyder.	Scurry.	84.7									1.13		1.13	0	1	28	1	1	s.
Somerville.	Burleson.	251	2	82.8		99	19	67	4	28	1.13								
Sonora.	Sutton.	2,200	8	88.0		110	24	64	4†	37	0.56		0.48	0	3	23	7	0	se.
Spur.	Dickens.	2,300									0.30		0.30	0	3	21	9	5	s.
Stamford.	Jones.	84.8									4.40		2.00	0	5	23	2	5	s.
Stowell.	Chambers.										0.40		0.40	0	3	21	9	5	s.
Sutherland Springs**.	Wilson.	1	86.2		108	13	62	2†	41	0.30	- 2.61	0.30	0	2	26	4	0	s.	
Taylor.	Williamson.	583	10	82.8	+ 2.8	102	13	66	3	30	0.91	- 2.61	0.72	0	2	26	4	0	s.
Temple.	Bell.	630	21	85.2	+ 5.3	103	13	68	19	28	1.23	- 2.16	0.94	0	3	27	3	0	se.
Theodore.	Winkler.	1									0.14		0.14	0	1				
Thurber.	Erat.	1									0.98		0.52	0	3	13	15	2	se.
Tilden.	McMullen.	5	87.3		111	18	63	2	42	T.	0.48		0.48	0	1				
Tivoli.	Refugio.	1									T.		T.	0	0	8d	18d		

TABLE 2.—*Daily precipitation for June, 1911. District No. 8, Texas and Rio Grande Valley.*

TABLE 2.—*Daily precipitation for June, 1911. District No. 8—Continued.*

TABLE 2.—*Daily precipitation for June, 1911. District No. 8—Continued.*

\* Precipitation included in that of the next measurement.

† Separate dates of falls not recorded.

Precipitation for the 24 hours ending on the morning when it is measured.  
Precipitation is less than 0.01 inch rain or melted snow.

T. Precipitation is less than 0.01 inch rain or melted snow

TABLE 3.—Maximum and minimum temperatures at selected stations for June, 1911. District No. 8, Texas and Rio Grande Valley.

Date.	Colorado.				New Mexico.										Texas.													
	Garnett.		San Luis.		Agricultural College.		Carlsbad.		Fort Stanton.		Mountain-air.		Rosedale.		Roswell.		Santa Fe.		Santa Rosa.		Abilene.		Big Springs.		Brownsville.		Corpus Christi.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	74	43	76	40	94	56	94	60	81	48	87	49	83	52	91	60	77	59	92	57	97	71	99	71	90	70	87	73
2....	77	33	76	38	92	65	96	64	85	51	86	52	81	52	93	62	76	56	94	57	95	73	98	89	69	85	73	
3....	78	34	74	36	93	61	93	66	83	48	87	49	83	52	81	62	75	48	97	55	94	70	98	68	90	71	84	76
4....	88	40	78	32	95	53	96	58	87	40	89	52	83	51	91	54	78	49	96	57	94	71	96	65	91	70	85	76
5....	82	42	80	35	98	62	99	66	89	42	92	49	83	53	96	58	79	51	98	53	96	73	93	64	92	73	87	76
6....	81	44	83	38	98	54	100	64	89	42	91	51	85	51	98	60	79	52	100	57	98	73	96	69	93	70	87	74
7....	87	45	92	43	97	64	96	64	87	49	86	59	85	54	94	58	82	57	97	62	96	72	101	70	92	69	86	76
8....	77	39	75	48	95	62	94	59	87	51	79	57	84	55	92	56	77	58	93	60	96	72	101	69	93	70	86	75
9....	76	40	75	42	96	65	97	65	85	53	78	52	82	62	88	60	77	55	95	63	97	73	100	72	93	70	86	73
10....	78	33	79	31	94	61	93	69	85	48	76	51	79	53	92	63	79	52	84	57	98	74	102	73	92	71	86	75
11....	82	40	79	38	73	63	81	62	69	53	70	52	69	51	75	62	75	54	83	62	96	74	93	69	94	70	86	76
12....	84	43	80	39	71	61	87	64	71	51	71	46	62	49	83	60	77	53	92	51	98	71	100	67	95	68	91	74
13....	78	44	78	43	79	58	81	65	70	53	70	51	61	51	80	61	70	56	88	55	100	70	100	67	97	70	97	74
14....	75	45	63	42	85	60	89	60	77	47	64	49	60	48	86	57	66	51	86	54	99	77	92	64	96	66	94	73
15....	75	48	71	48	91	56	95	60	82	46	75	44	73	47	92	57	75	44	89	62	101	78	103	71	91	74	89	76
16....	75	40	71	39	93	59	99	61	85	47	74	45	80	46	85	56	72	48	92	58	103	76	102	74	92	74	86	76
17....	78	43	69	38	94	57	98	65	89	49	80	46	81	47	92	60	70	49	91	54	103	75	103	63	96	78	87	76
18....	70	40	74	38	95	64	95	64	83	43	80	47	82	56	91	61	77	43	90	50	97	72	96	62	94	76	90	77
19....	82	43	80	43	96	63	97	68	81	50	79	52	80	57	90	64	78	57	91	56	94	72	93	63	98	76	90	76
20....	83	47	72	45	83	66	86	67	75	49	68	56	69	52	86	63	70	57	92	58	93	66	91	61	101	75	93	78
21....	80	40	72	50	89	63	82	69	75	56	65	50	72	48	82	66	72	53	80	60	83	69	99	57	97	77	94	76
22....	78	42	76	43	91	63	94	64	81	48	72	46	75	51	91	63	77	52	91	58	92	72	97	78	90	80	82	72
23....	77	43	78	42	97	64	100	63	91	51	82	50	82	50	95	63	80	53	97	57	100	72	100	64	94	77	85	74
24....	82	37	78	42	100	57	104	66	93	49	84	53	84	58	101	60	83	54	99	63	105	79	107	71	91	76	86	78
25....	83	36	78	39	101	60	105	68	94	51	81	53	85	56	102	61	84	50	102	59	101	78	103	67	92	79	86	79
26....	85	46	80	37	100	59	105	69	90	53	83	52	83	56	98	64	80	52	93	59	104	68	90	75	85	77	85	77
27....	79	41	80	46	102	61	100	68	87	54	83	53	88	53	95	65	83	61	98	64	96	76	97	66	90	74	85	77
28....	94	42	80	53	98	62	98	68	87	49	82	58	84	58	95	62	83	58	99	60	97	74	100	63	91	75	80	78
29....	86	48	77	53	98	67	98	65	81	51	73	60	79	63	95	60	79	58	96	62	96	74	97	65	91	74	85	79
30....	79	52	71	51	92	66	96	70	80	56	77	57	76	57	94	66	73	56	96	60	95	73	95	84	72	86	78	78
Mns..	79.8	41.5	76.3	41.7	92.5	60.7	94.9	64.7	83.3	49.3	78.9	51.4	78.7	52.8	91.3	60.8	76.8	53.1	93.0	58.0	97.3	73.2	98.5	67.2	92.8	73.0	87.7	75.7

Date.	Texas.																											
	Del Rio.		El Paso.		Fort McIntosh.		Fort Stockton.		Fort Worth.		Galveston.		Hallettsville.		Houston.		Lufkin.		Palestine.		Plainview.		San Antonio.		Seymour.		Taylor.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	97	74	93	66	99	73	93	64	102	75	88	78	95	71	95	75	99	69	95	75	89	56	95	70	101	63	95	72
2....	95	70	93	69	98	70	92	60	98	75	86	76	92	68	93	74	96	70	92	75	90	56	92	69	98	65	90	66
3....	94	74	93	71	100	74	107	64	97	72	85	78	93	67	92	72	96	69	92	72	89	56	90	60	99	65	90	66
4....	93	72	95	64	100	74	98	59	96	73	84	78	93	70	92	73	94	70	90	71	90	57	92	71	98	68	91	69
5....	97	74	97	72	109	73	110	66	98	75	85	77	95	70	98	73	97	68	97	72	90	57	95	73	102	70	93	73
6....	98	73	98	69	101	73	110	69	100	76	85	78	95	70	97	73	95	69	98	72	94	59	95	72	105	70	93	71
7....	98	73	97	71	100	89	109	61	99	75	85	77	95	68	94	73	97	70	94	72	97	59	95	72	103	68	93	70
8....	97	73	97	70	101	74	108	68	100	73	90	75	95	67	96	72	100	72	96	74	91	55	94	72	101	61	95	68
9....	99	76	96	74	102	73	108	67	102	76	91	78	97	67	96	76	101	75	97	70	94	59	95	72	10			